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State of Louisiana

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Statewide Interoperability Executive Committee http://www.ohsep.louisiana.gov/interop.htm

2	F	POLICY NAME: NETWORK PATCHING POLICY
3 4	F	POLICY NUMBER: 09-004
5 6	F	PROPOSED EFFECTIVE DATE:
7 8		
9		Network Patching and Monitoring Policy
10 11	ı	Network Patching and Monitoring
12	••	Network I atoming and morntoring
13 14		Due to the existence of disparate systems in the state of Louisiana the interoperability subcommittee has determined the need for a policy concerning
15 16		patching these systems to the statewide interoperability network. Generally the patching of the statewide communication system is discouraged due to the
17 18		potential to over use system resources.
19 20		The statewide system manager shall be informed of existing equipment that has the capability of patching to the statewide communication system. This
21 22		includes devices such as ACU 1000, Motobridge, Control Stations, Central Electronics Bank, etc.
23		
2425		Examples of patches that may need to be made are:
26		Cross patch to legacy trunk system
27		Cross patch to conventional system
28		 Patch to a separate frequency band
29		Talk group patch within the statewide system
30 31		Patch to cell phones/satellite phone
32		Patching has the ability to degrade the overall performance of the statewide
33		communication system; however the state recognizes the need. When a patch
34		is made the state encourages agencies to discontinue the patch as soon as
35		possible.
36 37	II.	Network Patching
38	•••	Network I atoming
39		Network Patching is the capability to interconnect different radio systems
40		(whether on different channels or modes), or other communication systems.
41 42		Existing radios and channels can be interconnected with the channels of other systems or to other communication sources. More often it will be a need to

1	interconnect to a PBX or other telephone system, cell systems, internet,
2	satellite phones or another agency's communication system.
3 4	In most cases network patches can be accomplished through dispatch
5	consoles, or other external devices such as an ACU1000 or Motobridge.
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7 III.	Network Patch Communications Request
8 9	A. Agency to Statewide Communication System
10	A. Agency to Statewide Communication System
11	When an agency needs to perform an agency to the statewide
12	communication system patch that will be accomplished with no outside
13	assistance, the agency must provide the following information to ESF-2:
14 15	• Aganay requiring natwork natch
15 16	 Agency requiring network patch Reason for request or event type, i.e. hurricane, floods, fire etc.
17	Details of the patch to include type of system, frequency or talk group
18	 All involved agencies requiring interoperability
19	Expected duration of event
20	Patch Location A point of contact
21 22	A point of contactA phone number to use as a point of contact
23	A priorie number to use as a point of contact
24	B. Agency to the Statewide Communication System requiring
25	assistance
26	Against many request use of the resources from the ECE 2 by manyiding
27 28	Agencies may request use of the resources from the ESF-2 by providing the following information:
29	the following information.
30	Agency requiring network patch
31	 Reason for request or event type, i.e. hurricane, floods, fire etc.
32	Details of the patch to include type of system, frequency or talk group
33 34	All involved agencies requiring interoperabilityEquipment required
35	Expected duration of event
36	Location required/access information
37	A point of contact
38	 A phone number to use as a point of contact
39 10	C. Naturally Datah Danlayment Bracedure (tastical equipment required)
40 41	C. Network Patch Deployment Procedure (tactical equipment required)
12	Upon receiving a request for assistance for the use of a Network Patch and
13	tactical equipment will be deployed, the ESF-2 will be notified and will be
14	responsible for dispatching the tactical equipment to the incident scene.
15 16	COC about dellaw these dealers are actions as
1 6	ESF should follow these deployment procedures:

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- Respond to requester with estimated time to retrieve tactical equipment and estimated time to arrive on the incident scene
- Arrange for the tactical equipment to be deployed
- Contact the Incident Commander upon arrival of tactical equipment
- Arrange for the tactical equipment to be set up
- Arrange for the tactical equipment to be removed after the incident is concluded

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10 IV. Network Patch Activation

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Some locations may not be equipped with agency radios before the event therefore; all agencies will be required to bring a portable radio to connect to the tactical equipment command center for the length of the operation. Setup and installation of all radios will occur at location of patch. Agencies are also responsible for providing additional power supplies (i.e. spare batteries, chargers, speaker microphones, necessary cables, etc.) for portable radios, as battery life limits usability of the radio (see Network patch Limitations below).

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The Incident Commander or designee should follow these procedures in accordance with NIMS (National Incident Management System):

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• Avoid using an agency's primary dispatch channel

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 Require participating agencies to check in at the command post and provide portable radios and frequency/talk group channels for use during the incident to the Communication Unit Leader

28 29 Assign radio call sign/designator information to connected agencies
 Instruct ESF-2 on where to setup and operate the tactical equipment if assigned

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• Inform ESF-2 which agencies are participating

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 Provide ESF-2 with agency provided radios and frequency/talk group channels to be used during the incident

35 36 Confer with ESF-2 concerning what command level or other specific talk groups that need to be programmed into the network patch

Assign the requested unit/agency to that channel or talk group as

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The ESF-2 should follow these procedures:

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 Arrange to obtain agency radios and connect to the patch with associated cables

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• Select the channel or talk group assigned by the agency

designated by the Incident Commander

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1	Participating agencies are to follow these procedures for the duration of the		
2	network patch:		
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4	 Agencies should follow procedures and policies already established for 		
5	their shared systems		
6	 If an individual responder needs to talk to an agency with which they 		
7	do not otherwise have communications, the responder notifies their		
8	local dispatch center that they need to operate on a pre determined		
9	shared channel/talk group. Local dispatch center supervisor will		
10	determine the appropriate channel/talk group		
11	 For an extended incident, the local dispatch center is responsible for 		
12	notifying the appropriate agency in accordance with their existing plan,		
13	that an interoperability channel/talk group is in use		
14	 When a responder is dispatched to an incident, each local dispatch 		
15	center is responsible for notifying responders which interoperability		
16	channel(s)/ talk group(s) is (are) being used for the incident		
17	The Incident Commander determines when the interoperability		
18	channel/talk group is no longer required and notifies their local		
19	dispatch center		
20	Network Patch Deactivation		
21 V. 22	Network Fatch Deachvalion		
23	When interoperable communications are no longer required, agencies should		
24	follow these guidelines.		
25	Tonow those galacimics.		
26	The Incident Commander or designee:		
27	3		
28	 Make an announcement on the command channel to all commanders 		
29	to advise them the network patch is being deactivated		
30	 Contact the ESF-2 or console operator to shut down the network patch 		
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32	Participating agencies:		
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34	 Individual agencies are responsible for retrieving the portable radio and 		
35	associated equipment provided during the operation.		
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37	The ESF:		
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39	Assure agencies retrieve all portable radios		
40	Take inventory of equipment and note any needing repair or		
41	replacement		
42	Return to pre-response storage location and make the tactical		
43	equipment ready for service		
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1 VI. Problem ID and Resolution

If an issue or problem is identified during the network patch, the ESF-2 shall determine who will take corrective action. If the issue or problem can not be identified, the ESF-2 shall contact the appropriate technical personnel or Parish NCC to address the issue or problem.

Any problems discovered during the patch shall be resolved in the following manner:

- The local dispatch center having jurisdiction over the location of the incident reports any problems experienced to the system provider (the agency operating the radio system).
- The Communications Unit Leader will be responsible for ensuring effective resolution to problems that exist with interoperability resources, and notify the local dispatch center of the issues' resolution.

The following guidelines shall govern network patch problem identification and resolution between agencies:

 The ESF-2 reports any problems experienced to the Communications Unit Leader. Agencies using network patches may also report any problems experienced

• The Communications Unit Leader will be responsible for ensuring effective resolution to problems that exist with interoperability resources, and notify the local dispatch center of the issues' resolution

28VII. Network Patch Test Procedures

To ensure that equipment components of the network patch operate properly, each agency will test their resources according to their agency's individual policies and procedures. Below are recommended procedures:

- Representatives from each agency should meet on a regular basis to test communications
- Testing should include deployment, setup, operation, and deactivation of the network patch
- Agency representatives should arrive at the test location to test their ability to communicate with other agencies utilizing the patch.

4 MIII. Network patch Limitations

The interoperability provided through the network patches have the ability to link participating agencies, but has the following limitations:

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- Battery life of portable radios has a limited time of use: these are designed to enable interoperable communications for short duration events or until a mobile command vehicle arrives. In the event that the network patch will need to be used for an extended period of time, precautions such as an additional power supplies, personal radio chargers, or other provisions should be considered
 - Home system coverage may limit communications: All units utilizing the network patch will be operating in a simplex or non-repeated mode once they arrive on the scene and during emergency response operations. Access to repeaters of an agency's home system while en-route to or while on the scene of the incident will be dependent on the coverage of their home system. Alternate methods of communication (e.g., use of a cellular phone, satellite systems, internet etc.) may be required to communicate with your agency's home system if you are outside the coverage of your home system
 - Interoperability connectivity needs to be planned in advance: For agencies to have interoperability on the scene of an incident they would need to have provided a portable radio, cable and other peripherals in advance or provide them on the scene of the incident
 - Frequency conflicts/interference issues- In regions where multiple mobile gateway devices are accessible, it is critical that the use of these devices be closely coordinated to ensure that multiple systems do not "step-on" each other. These interference issues often occur when communications vehicles are placed in the same staging area and multiple network patches are activated
 - Additional Planning Needed: Agencies not included in the list of participating agencies will require additional planning to establish interoperable communications: Agencies not included in the table cannot establish direct interoperable communications with the network patch connected agencies without additional planning
 - Alert Beacon: Automatic emergency notification alarms ("Man-down" button") may not work properly if outside of parent agency coverage area
 - Access Delay Time Clipping: Transmission and reception delays may occur during the use of console patching which may affect on-scene communications. Users will need to push-to-talk, pause three seconds and then transmit information since there may be a 2-3 second delay

The interoperability provided through the network patch has the ability to link participating agencies but has the following limitations:

Deployment time for a mobile gateway is typically one (1) hour mobilization time, one (1) hour on-scene setup time plus travel time to the incident scene. On-scene setup time can be significantly shortened by pre-planning

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1 IX. Interoperability Channel Monitoring

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- 3 All agencies' dispatch/radio communications centers will monitor the intra-
- 4 jurisdictional interoperability channel. Once it is activated, all dispatch/radio
- 5 communications centers will be required to monitor the channel on a priority
- 6 basis until its use is discontinued.

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